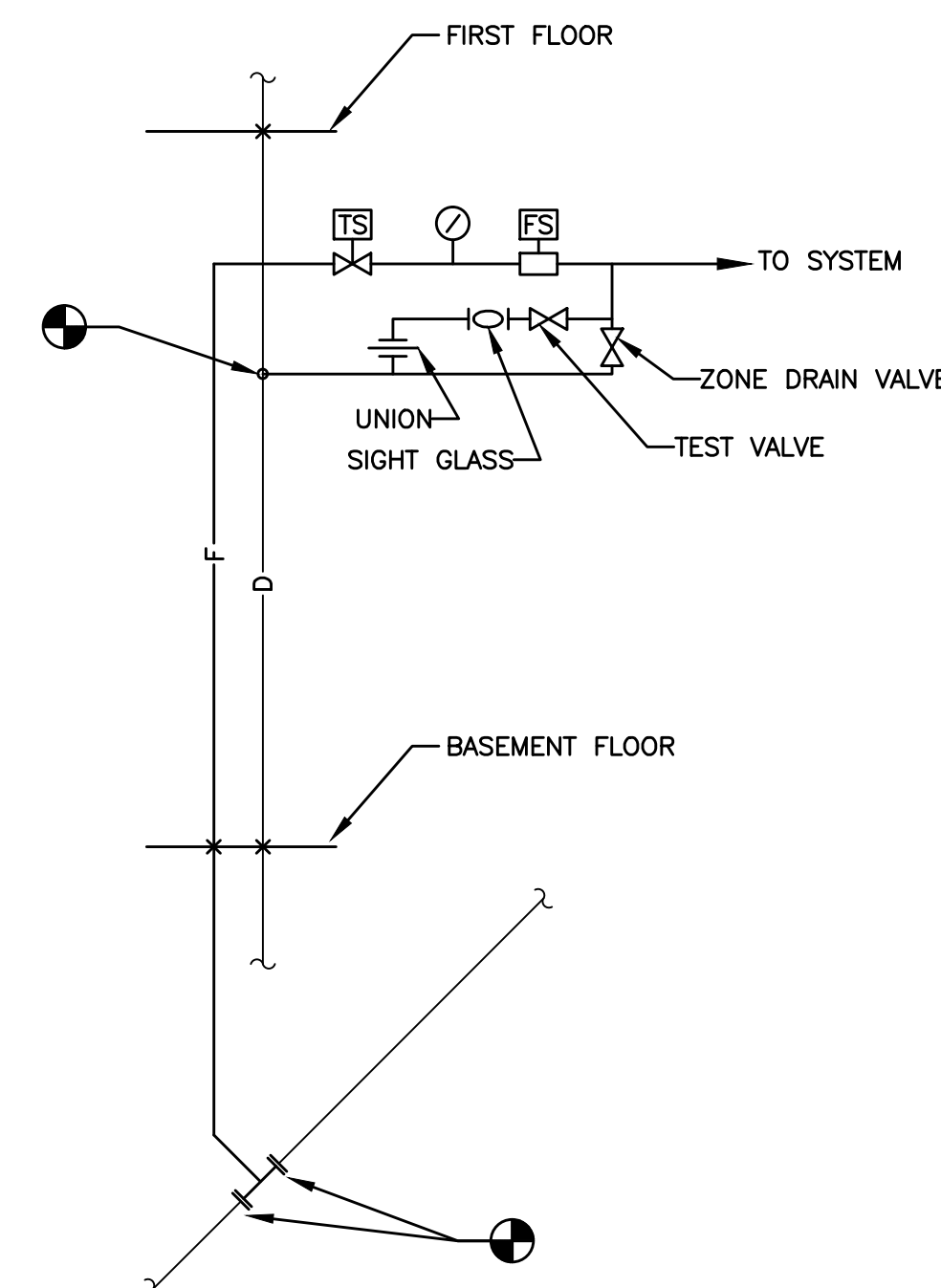
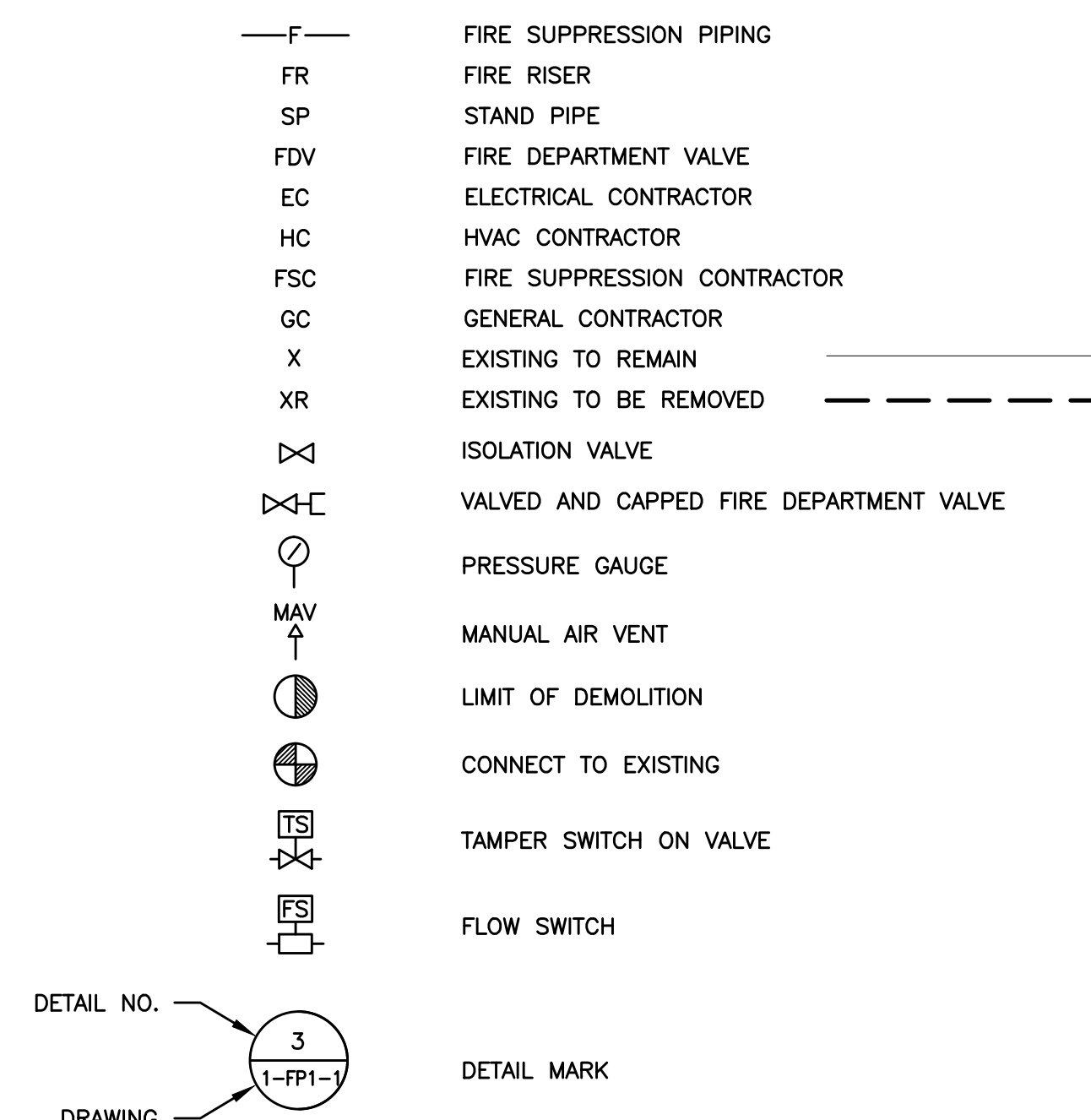


KEY PLAN - BASEMENT
Scale = None



FIRE SUPPRESSION PIPING LEGEND



STAIR #8
SPRINKLER RISER DETAIL

SCALE: NONE

FIRE SUPPRESSION GENERAL NOTES:

- B. LOCATIONS AND ROUTING OF EXISTING PIPING, DUCTWORK AND EQUIPMENT IS PRESUMED FROM EXISTING DRAWINGS. MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFY ENGINEER OF ANY CONDITIONS WHICH WILL NOT PERMIT THE WORK TO BE PERFORMED AS INDICATED ON THESE DRAWINGS.
- B. COORDINATE ALL SHUT-DOWNS OF EXISTING SYSTEMS WITH OWNER A MINIMUM OF TEN WORKING DAYS IN ADVANCE.
- C. PRIOR TO INSTALLATION, VERIFY PRECISE LOCATION OF NEW WALL MOUNTED DEVICES WITH OWNER AND ARCHITECT. PROVIDE ARCHITECTURAL REFLECTED CEILING PLAN FOR PRECISE LOCATION OF CEILING MOUNTED DEVICES.
- D. PROVIDE ADEQUATE SERVICE CLEARANCE FOR ALL EQUIPMENT. REFER TO INSTRUCTIONS FROM THE EQUIPMENT MANUFACTURER.
- E. NEW PIPING SHALL NOT BE ROUTED ABOVE ELECTRICAL PANELS. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF PANELS.
- F. THE FIRE SUPPRESSION CONTRACTOR SHALL PROVIDE DETAILED DESIGN OF THE SPRINKLER SYSTEM. REFER TO SPECIFICATIONS.
- G. UNLESS OTHERWISE NOTED NEW SPRINKLERS SHALL BE AS FOLLOWS:
 - G.1. AREAS WITH CEILINGS: RECESSED CONCEALED STYLE WITH COVER PLATES.
 - G.2. EXPOSED STRUCTURE: UPRIGHT OR PENDENT TYPE.
 - G.3. OPERATING ROOMS: RECESSED CONCEALED STYLE WITH COVER PLATES.
- H. ALL SPRINKLERS FURNISHED AS PART OF THIS PROJECT SHALL HAVE COVER PLATES WITH THE SAME SHAPE AND SIZE. COLOR SHALL BE SELECTED BY ARCHITECT.
- I. THE FIRE PROTECTION SYSTEM IS PERFORMANCE SPECIFIED. ALL SPRINKLER PIPE SIZES SHALL BE DETERMINED BY FIRE PROTECTION CONTRACTOR, BASED ON HYDRAULIC CALCULATIONS.
- J. CONTRACTOR IS RESPONSIBLE TO SUBMIT THEIR FIRE PROTECTION SHOP DRAWINGS TO OWNERS INDEPENDENT UNDERWRITER AND LOCAL FIRE MARSHAL AND OBTAIN APPROVAL PRIOR TO STARTING WORK.
- K. PROVIDE SUPPLEMENTAL DRAINS AS NECESSARY TO PROVIDE 100% SYSTEM DRAINAGE. LOCATE DRAINS ABOVE ACCESSIBLE CEILINGS.
- L. REFER TO ARCHITECTURAL PLANS FOR EXACT PHASING REQUIREMENTS.
- M. REFER TO SPECIFICATIONS FOR FIRE SUPPRESSION HAZARD OCCUPANCY CLASSIFICATIONS.
- N. SPRINKLER PIPING SHALL BE A MINIMUM OF ONE INCH.
- O. UNLESS OTHERWISE STATED ON DRAWINGS OR IN THE SPECIFICATIONS, ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE.
- P. ALL HEADS SHALL BE UL LISTED AND FM APPROVED.
- Q. ALL SPRINKLER HEADS LOCATED IN CEILING TILES SHALL BE LOCATED IN CENTER OF THE CEILING TILE.
- R. ALL SPRINKLER ZONES SHALL MATCH SMOKE COMPARTMENTS. REFER TO ARCHITECTURAL PLANS FOR INFORMATION ON SMOKE COMPARTMENTS, SMOKE PARTITIONS AND FIRE BARRIERS.
- S. CONTRACTOR SHALL REMOVE AND REPLACE CEILING TILES AND GRID AS REQUIRED TO COMPLETE DEMOLITION AND NEW WORK IN AREAS OUTSIDE OF RENOVATION PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY TILES OR GRID DAMAGED DUE TO THIS WORK.

PROJECT COORDINATION NOTES:

- A. THIS PROJECT CONSISTS OF MULTIPLE TRADES OF WORK PERFORMED WITHIN AN EXISTING BUILDING AND A BUILDING ADDITION, ALL OF WHICH ALLOWS VERY LITTLE PERMISSIBLE RANGE OF VARIATION, THE CONTRACTOR SHALL TAKE CAREFUL CONSIDERATION WITH THE COORDINATION AND INSTALLATION OF THE MULTITUDE OF NEW SYSTEMS WHILE ALSO ACCOMMODATING ANY EXISTING SYSTEMS TO REMAIN.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL TRADES ASSOCIATED WITH THIS PROJECT AND ISSUING COORDINATION PLANS PRIOR TO COMMENCEMENT OF EACH PHASE OF CONSTRUCTION.
- C. THE COORDINATION DRAWINGS SHALL ILLUSTRATE ALL SYSTEMS IN PLACE. NO EXCEPTIONS! THE CONTRACTOR SHALL SHOW ALL NECESSARY OFFSETS, TRANSITIONS, ETC. AS REQUIRED IN ORDER TO ACCOMMODATE CONDITIONS IDENTIFIED IN THE FIELD.
- D. IF CONFLICTS ARE IDENTIFIED DURING THE DEVELOPMENT OF COORDINATION PLANS, THE CONTRACTOR SHALL NOTIFY THE VA COTR, ARCHITECT, AND/OR ENGINEER OF ANY CONDITIONS WHICH WILL NOT PERMIT THE WORK TO BE PERFORMED AS INDICATED ON THE PROJECT PLANS.
- E. A COMPLETED SET OF COORDINATION PLANS ISSUED FOR REVIEW SHALL CONFIRM THAT THE CONTRACTOR FULLY UNDERSTANDS THE PROJECT CONSTRAINTS AND ALL KNOWN CONFLICTS HAVE BEEN ADDRESSED.

LEAD SHIELDING NOTE

- S1. REFER TO ARCHITECTURAL PLANS FOR DESIGNATED WALLS IN THE PROJECT AREA TO BE LINED WITH LEAD SHEILDING BY THE CONTRACTOR. FOR EXISTING MECHANICAL DEVICES THAT ARE INDICATED TO REMAIN, THE MECHANICAL CONTRACTOR SHALL REMOVE AND RE-INSTALL OR RELOCATE THESE DEVICES. THE GC SHALL PROVIDE NEW LEAD SHEILDING FOR ALL SUCH DEVICES. THE GC SHALL PROVIDE NEW LEAD SHEILDING FOR ALL NEW LEAD SHEILDING FOR EACH DEVICE. THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL SUCH WORK WITH THE GENERAL CONTRACTOR, AND SHALL ASSIST THE GENERAL CONTRACTOR IN THE PERFORMANCE OF THIS WORK. IN ANY CASE, ALL PLUMBING DEVICES, HVAC DEVICES, FIRE PROTECTION DEVICES, ETC. INSTALLED IN THESE WALLS SHALL BE SHIELDED WITH LEAD.

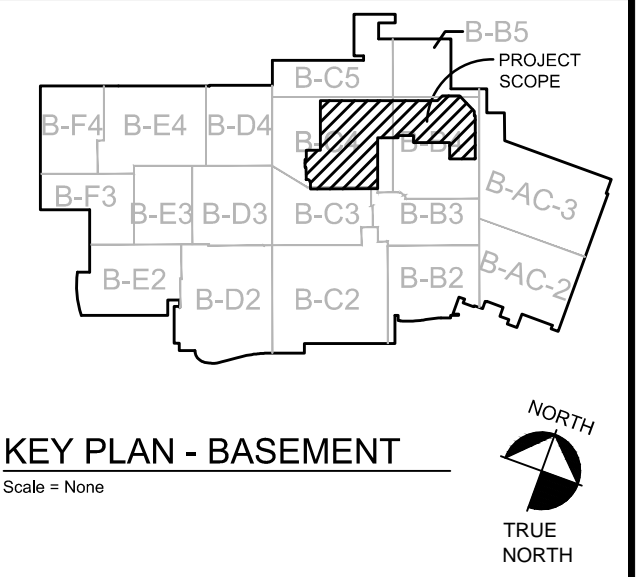
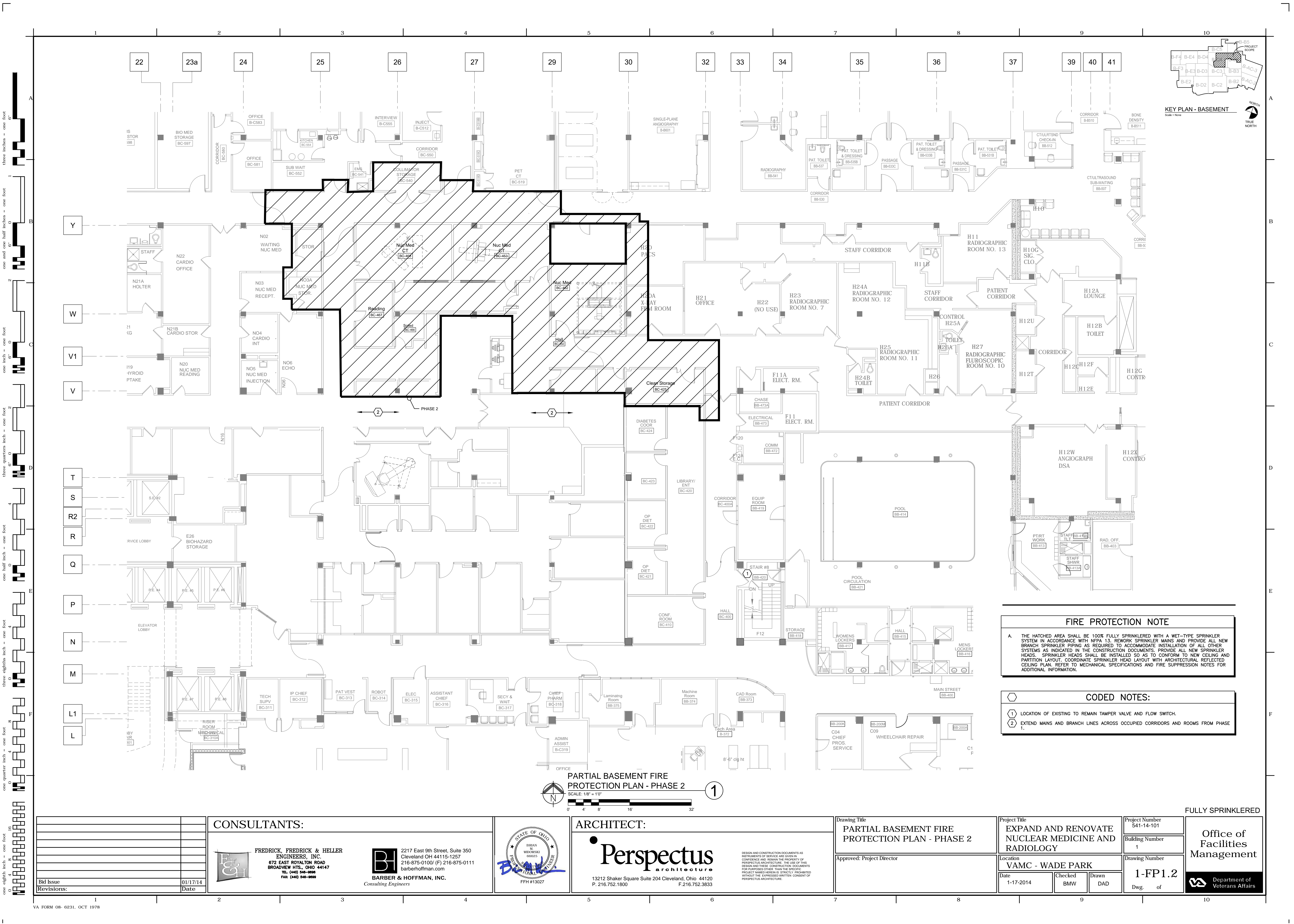
FULLY SPRINKLERED

		CONSULTANTS:		ARCHITECT:		Drawing Title FIRE PROTECTION LEGEND, DETAILS, AND GENERAL NOTES		Project Title EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY		Project Number 541-14-101		Office of Facilities Management			
		 FREDRICK, FREDRICK & HELLER ENGINEERS, INC. 672 EAST ROYALTON ROAD BROADVIEW HTS., OHIO 44147 TEL: (440) 546-9086 FAX: (440) 546-9090		 2217 East 9th Street, Suite 350 Cleveland OH 44115-1257 216-875-0100/ (F) 216-875-0111 barberhoffman.com BARBER & HOFFMAN, INC. Consulting Engineers		 Perspectus architecture 13212 Shaker Square Suite 204 Cleveland, Ohio 44120 P. 216.752.1800 F.216.752.3833		Approved: Project Director		Location VAMC - WADE PARK				Drawing Number 1-FP-0 Dwg. of	
Bid Issue		01/17/14						Date 1-17-2014		Checked BMW		Drawn DAD		 Department of Veterans Affairs	
Revisions:		Date													



one eighth inch = one foot

FULLY SPRINKLERED



FIRE PROTECTION NOTE

A. THE HATCHED AREA SHALL BE 100% FULLY SPRINKLERED WITH A WET-TYPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. REWORK SPRINKLER MAINS AND PROVIDE ALL NEW BRANCH SPRINKLER PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION OF ALL OTHER SYSTEMS AS INDICATED IN THE CONSTRUCTION DOCUMENTS. PROVIDE ALL NEW SPRINKLER HEADS. SPRINKLER HEADS SHALL BE INSTALLED SO AS TO CONFORM TO NEW CEILING AND PARTITION LAYOUT. COORDINATE SPRINKLER HEAD LAYOUT WITH ARCHITECTURAL REFLECTED CEILING PLAN. REFER TO MECHANICAL SPECIFICATIONS AND FIRE SUPPRESSION NOTES FOR ADDITIONAL INFORMATION.

CODED NOTES:

① LOCATION OF EXISTING TO REMAIN TAMPER VALVE AND FLOW SWITCH.

② EXTEND MAINS AND BRANCH LINES ACROSS OCCUPIED CORRIDORS AND ROOMS FROM PHASE 1.

PARTIAL BASEMENT FIRE PROTECTION PLAN - PHASE 2

SCALE: 1/8" = 1'0"

①

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Revisions:	Date

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Drawing Title	PARTIAL BASEMENT FIRE PROTECTION PLAN - PHASE 2
Approved: Project Director	

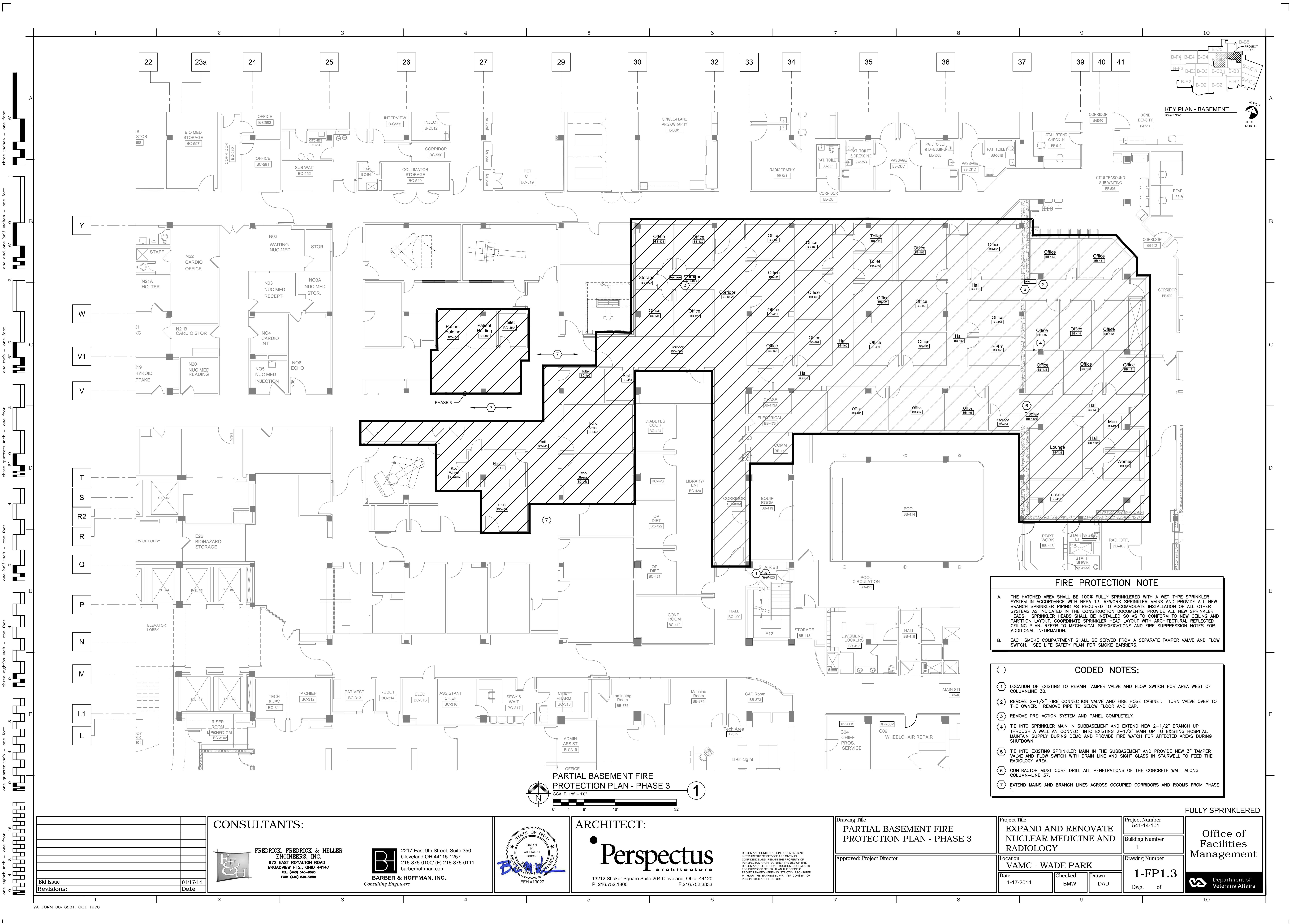
Project Title	EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY
Location	VAMC - WADE PARK
Date	1-17-2014
Checked	BMW
Drawn	DAD

Project Number	541-14-101
Building Number	1
Drawing Number	1-FP1.2
Dwg. of	

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Office of Facilities Management

Department of Veterans Affairs



FIRE PROTECTION NOTE

A. THE HATCHED AREA SHALL BE 100% FULLY SPRINKLERED WITH A WET-TYPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. REWORK SPRINKLER MAINS AND PROVIDE ALL NEW BRANCH SPRINKLER PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION OF ALL OTHER SYSTEMS AS INDICATED IN THE CONSTRUCTION DOCUMENTS. PROVIDE ALL NEW SPRINKLER HEADS. SPRINKLER HEADS SHALL BE INSTALLED SO AS TO CONFORM TO NEW CEILING AND PARTITION LAYOUT. COORDINATE SPRINKLER HEAD LAYOUT WITH ARCHITECTURAL REFLECTED CEILING PLAN. REFER TO MECHANICAL SPECIFICATIONS AND FIRE SUPPRESSION NOTES FOR ADDITIONAL INFORMATION.

B. EACH SMOKE COMPARTMENT SHALL BE SERVED FROM A SEPARATE TAMPER VALVE AND FLOW SWITCH. SEE LIFE SAFETY PLAN FOR SMOKE BARRIERS.

- CODED NOTES:**
- 1 LOCATION OF EXISTING TO REMAIN TAMPER VALVE AND FLOW SWITCH FOR AREA WEST OF COLUMNLINE 30.
 - 2 REMOVE 2-1/2" FIRE CONNECTION VALVE AND FIRE HOSE CABINET. TURN VALVE OVER TO THE OWNER. REMOVE PIPE TO BELOW FLOOR AND CAP.
 - 3 REMOVE PRE-ACTION SYSTEM AND PANEL COMPLETELY.
 - 4 TIE INTO SPRINKLER MAIN IN SUBBASEMENT AND EXTEND NEW 2-1/2" BRANCH UP THROUGH A WALL AN CONNECT INTO EXISTING 2-1/2" MAIN UP TO EXISTING HOSPITAL. MAINTAIN SUPPLY DURING DEMO AND PROVIDE FIRE WATCH FOR AFFECTED AREAS DURING SHUTDOWN.
 - 5 TIE INTO EXISTING SPRINKLER MAIN IN THE SUBBASEMENT AND PROVIDE NEW 3" TAMPER VALVE AND FLOW SWITCH WITH DRAIN LINE AND SIGHT GLASS IN STAIRWELL TO FEED THE RADIOLOGY AREA.
 - 6 CONTRACTOR MUST CORE DRILL ALL PENETRATIONS OF THE CONCRETE WALL ALONG COLUMN-LINE 37.
 - 7 EXTEND MAINS AND BRANCH LINES ACROSS OCCUPIED CORRIDORS AND ROOMS FROM PHASE 1.

FULLY SPRINKLERED

Bid Issue	01/17/14
Revisions:	Date

CONSULTANTS:



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Drawing Title
PARTIAL BASEMENT FIRE PROTECTION PLAN - PHASE 3

Approved: Project Director

Project Title
EXPAND AND RENOVATE
NUCLEAR MEDICINE AND
RADIOLOGY

Location
VAMC - WADE PARK

Date
1-17-2014

Checked
BMW

Drawn
DAD

Project Number
541-14-101

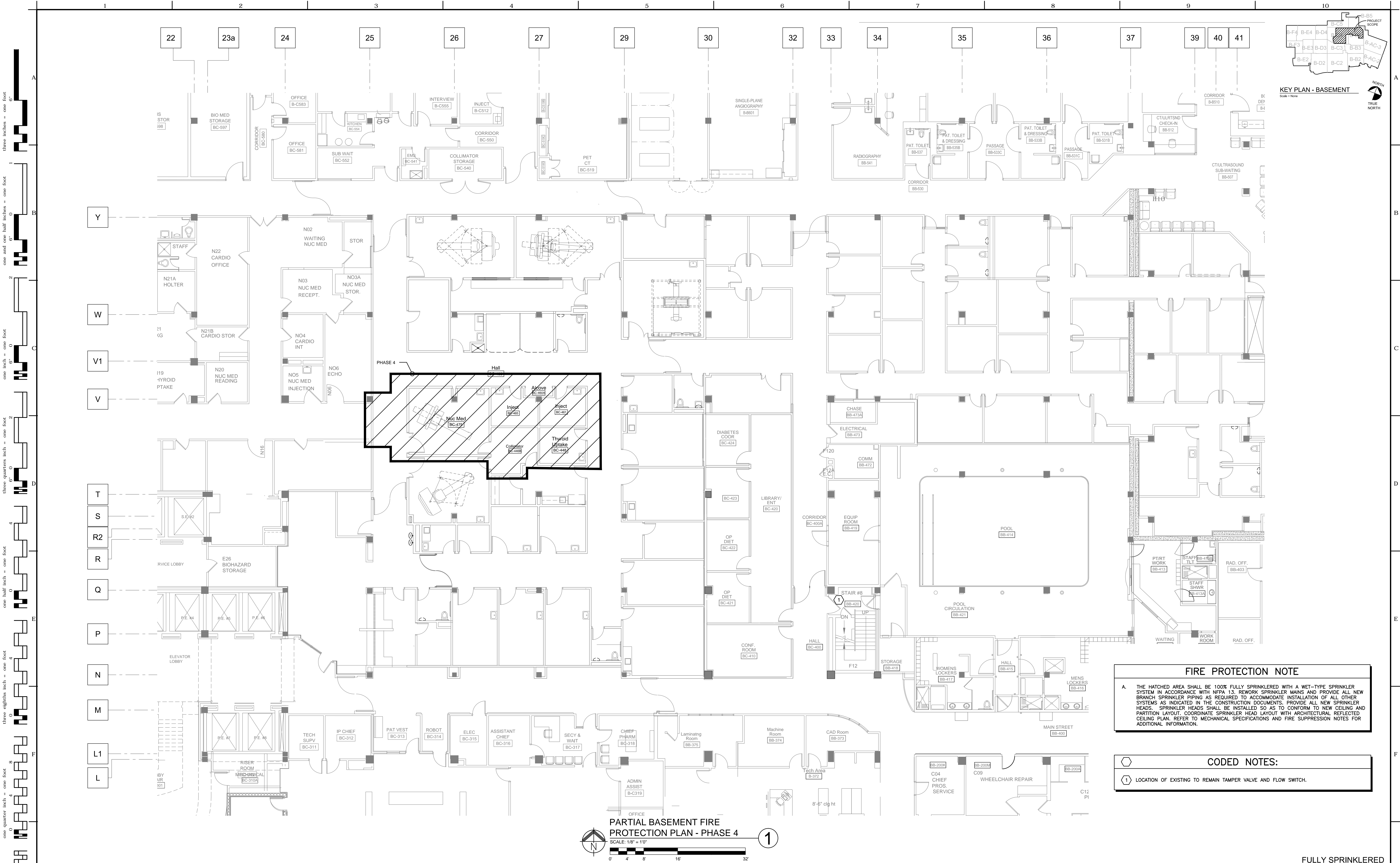
Building Number
1

Drawing Number
1-FP1.3

Dwg. of

**Office of
Facilities
Management**

 **Department of
Veterans Affairs**



PARTIAL BASEMENT FIRE PROTECTION PLAN - PHASE 4
SCALE: 1/8" = 10'

FIRE PROTECTION NOTE

A. THE HATCHED AREA SHALL BE 100% FULLY SPRINKLERED WITH A WET-TYPE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13. REWORK SPRINKLER MAINS AND PROVIDE ALL NEW BRANCH SPRINKLER PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION OF ALL OTHER SYSTEMS AS INDICATED IN THE CONSTRUCTION DOCUMENTS. PROVIDE ALL NEW SPRINKLER HEADS. SPRINKLER HEADS SHALL BE INSTALLED SO AS TO CONFORM TO NEW CEILING AND PARTITION LAYOUT. COORDINATE SPRINKLER HEAD LAYOUT WITH ARCHITECTURAL REFLECTED CEILING PLAN. REFER TO MECHANICAL SPECIFICATIONS AND FIRE SUPPRESSION NOTES FOR ADDITIONAL INFORMATION.

CODED NOTES:

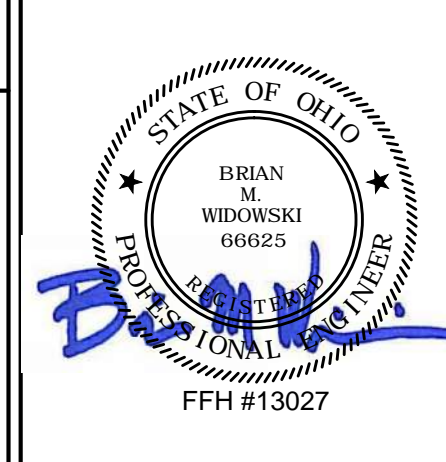
① LOCATION OF EXISTING TO REMAIN TAMPER VALVE AND FLOW SWITCH.

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Revisions:	Date

CONSULTANTS:

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BARBER & HOFFMAN, INC.
Consulting Engineers



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Drawing Title
PARTIAL BASEMENT FIRE PROTECTION PLAN - PHASE 4

Approved: Project Director

Project Title
EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location
VAMC - WADE PARK

Date
1-17-2014

Checked
BMW

Drawn
DAD

Project Number
541-14-101

Building Number
1

Drawing Number
1-FP1.4

Dwg. of

Office of Facilities Management
Department of Veterans Affairs

PLUMBING GENERAL NOTES:

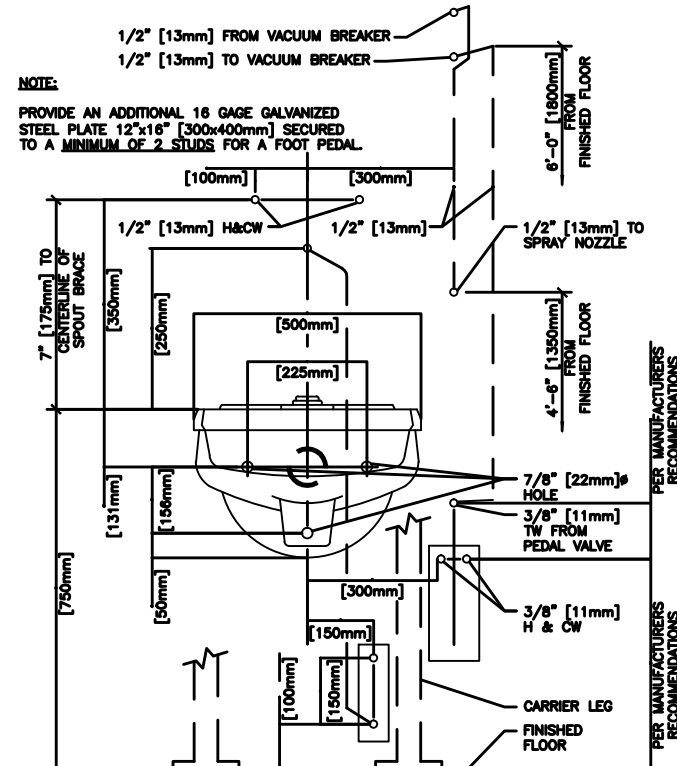
- LOCATIONS AND ROUTING OF EXISTING PIPING, DUCTWORK AND EQUIPMENT IS PRESUMED FROM EXISTING DRAWINGS. MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFY ENGINEER OF ANY CONDITIONS WHICH WILL NOT PERMIT THE WORK TO BE PERFORMED AS INDICATED ON THESE DRAWINGS.
- COORDINATE ALL SHUT-DOWNS OF EXISTING MECHANICAL SYSTEMS WITH OWNER A MINIMUM OF TEN (10) WORKING DAYS IN ADVANCE.
- PRIOR TO INSTALLATION, VERIFY PRECISE LOCATION OF NEW WALL MOUNTED DEVICES WITH OWNER AND ARCHITECT.
- PROVIDE ADEQUATE SERVICE CLEARANCE FOR ALL MECHANICAL EQUIPMENT. REFER TO INSTRUCTIONS FROM THE EQUIPMENT MANUFACTURER.
- NEW PIPING SHALL NOT BE ROUTED ABOVE ELECTRICAL PANELS. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF PANELS.
- WHERE EXISTING FIXTURES ARE TO BE REMOVED, REMOVE ALL ASSOCIATED BRANCH PIPING WHICH IS NOT TO BE REUSED. REMOVE PIPING TO MAINS AND CAP REMAINING PIPES.

MEDICAL GAS GENERAL NOTES:

- PROVIDE MEDICAL GAS PIPING SYSTEMS AND PIPE LABELS COMPLYING WITH REQUIREMENTS OF NFPA 99 "STANDARD FOR HEALTH CARE FACILITIES".
- INSTALLATION AND CERTIFICATION SHALL COMPLY WITH ASSE/ANSI SERIES 6000, "PROFESSIONAL QUALIFICATIONS STANDARDS FOR MEDICAL GAS SYSTEMS INSTALLERS, INSPECTORS AND VERIFIERS".
- PROVIDE COMPATIBLE ACCESSORIES, TUBE, FITTING, AND VALVES FOR EACH SYSTEM.
 - OUTLET / INLET STYLE: DISS
- MEDICAL GAS TUBE, FITTINGS AND JOINTS: PRE-CLEANED AND SEALED COPPER TUBE: ASTM B 88, TYPE K OR TYPE L, WATER TUBE: SEAMLESS, DRAWN TEMPER, CLEANED FOR MEDICAL GAS USE, PURGED, AND WITH ENDS SEALED.
- MEDICAL SYSTEM ACCESSORIES: PROVIDE THE MEDICAL GAS SYSTEM ACCESSORIES FROM MANUFACTURER OF EXISTING ACCESSORIES, COMPATIBLE WITH EXISTING SYSTEMS.
- SERVICE OUTLETS: INCLUDE BRASS VALVE AND BODY BLOCK WITH SEALS IN ROUGH-IN AND FINISHING ASSEMBLIES. STEEL OUTLET BOX AND COVER PLATE; 3/8 INCH TYPE K OR L COPPER TUBE BRAZED TO VALVE; AND PRESSURE OUTLETS WITH AUTOMATIC SECONDARY SERVICE VALVE TO PREVENT GAS FLOW WHEN PRIMARY VALVE IS REMOVED. DISS COUPLING SHALL BE INDEXED TO PREVENT INTERCHANGE BETWEEN SERVICES. CONSTRUCTED TO PERMIT ONE HANDED CONNECTION AND REMOVAL OF EQUIPMENT WITH POSITIVE LOCKING RING WHICH RETAINS EQUIPMENT STEM IN VALVE DURING USE. OUTLET/INLET TYPE OF CONNECTION SHALL BE COORDINATED WITH THE OWNER PRIOR TO ORDERING EQUIPMENT.
- INSTALL LABELING ON VALVES, VALVE BOX COVERS, AND ALARM PANELS IN ACCORDANCE WITH REQUIREMENTS OF NFPA 99 AND VA STANDARDS. CAPTIONS AND COLOR CODING: PER THE REQUIREMENTS OF NFPA 99 AND VA STANDARDS.
- LOCATIONS AND ROUTING OF EXISTING PIPING, DUCTWORK AND EQUIPMENT IS PRESUMED FROM EXISTING DRAWINGS. MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL PRIOR TO COMMENCEMENT OF CONSTRUCTION. NOTIFY ENGINEER OF ANY CONDITIONS WHICH WILL NOT PERMIT THE WORK TO BE PERFORMED AS INDICATED ON THESE DRAWINGS.
- COORDINATE ALL SHUT-DOWNS IF EXISTING MEDICAL GAS AND VACUUM SYSTEMS WITH OWNER A MINIMUM OF TEN WORKING DAYS IN ADVANCE.
- PRIOR TO INSTALLATION, VERIFY PRECISE LOCATION OF NEW WALL MOUNTED DEVICES WITH OWNER AND ARCHITECT.
- PROVIDE ADEQUATE SERVICE CLEARANCE FOR ALL EQUIPMENT. REFER TO INSTRUCTIONS FROM THE EQUIPMENT MANUFACTURER.
- NEW PIPING SHALL NOT BE ROUTED ABOVE ELECTRICAL PANELS. REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF PANELS.
- WHERE EXISTING FIXTURES ARE TO BE REMOVED, REMOVE ALL ASSOCIATED BRANCH PIPING WHICH IS NOT TO BE REUSED. REMOVE PIPING TO MAINS AND CAP REMAINING PIPES.
- MEDICAL GAS MATERIALS, EQUIPMENT AND INSTALLATION SHALL COMPLY WITH NFPA 99, "HEALTH CARE FACILITIES", LATEST EDITION. INSTALLATION PERSONNEL SHALL BE QUALIFIED IN ACCORDANCE WITH ASSE SERIES 6000, "PROFESSIONAL QUALIFICATIONS FOR MEDICAL GAS SYSTEMS INSTALLERS, INSPECTORS AND VERIFIERS".

LEAD SHIELDING NOTE

- REFER TO ARCHITECTURAL PLANS FOR DESIGNATED WALLS IN THE PROJECT AREA TO BE LINED WITH LEAD SHIELDING BY THE CONTRACTOR. FOR EXISTING MECHANICAL DEVICES THAT ARE INDICATED TO REMAIN, THE MECHANICAL CONTRACTOR SHALL REMOVE AND RE-INSTALL OR RELOCATE THESE DEVICES. THE GC SHALL PROVIDE NEW LEAD SHIELDING FOR ALL SUCH DEVICES. FOR NEW MECHANICAL DEVICES, THE GC SHALL PROVIDE ALL LEAD SHIELDING FOR EACH DEVICE. THE MECHANICAL CONTRACTOR SHALL COORDINATE ALL SUCH WORK WITH THE GENERAL CONTRACTOR, AND SHALL ASSIST THE GENERAL CONTRACTOR IN THE PERFORMANCE OF THIS WORK. IN ANY CASE, ALL PLUMBING DEVICES, HVAC DEVICES, FIRE PROTECTION DEVICES, ETC. INSTALLED IN THESE WALLS SHALL BE SHIELDED WITH LEAD.



CLINIC SERVICE SINK ROUGH-IN DETAIL
N/S

PLUMBING SYMBOLS:

(A)	REFERENCE TO CODED NOTE
(V-1)	EQUIPMENT OR FIXTURE MARK
C.T.E.	CONNECT TO EXISTING
P.C.	PLUMBING CONTRACTOR
G.C.	GENERAL CONTRACTOR
G	NATURAL GAS
ST	STORM WATER
SAN	SANITARY WASTE
V	PLUMBING VENT
TW	TEMPERED WATER
CW	DOMESTIC COLD WATER SUPPLY
HW	DOMESTIC HOT WATER SUPPLY
HW-R	DOMESTIC HOT WATER RETURN
HTHW(140°F)	DOMESTIC HIGH TEMPERATURE HOT WATER
R.D	ROOF DRAIN
R.W.C	RAIN WATER CONDUCTOR
F.D.	FLOOR DRAIN
X	EXISTING TO REMAIN
XR	EXISTING TO BE REMOVED
ISOLATION VALVE	
CHECK VALVE	
MOTORIZED CONTROL VALVE	
UNION	
REDUCER	
STRAINER	
BALANCING VALVE	
PIPE GUIDE	
PIPE EXPANSION ANCHOR	
FLEXIBLE METAL EXPANSION LOOP ASSEMBLY	
LIMIT OF DEMOLITION	
NEW WORK CONNECTION POINT	

MEDICAL GAS SYMBOLS:

---XRL---	EXISTING TO BE RELOCATED
---XR---	EXISTING TO BE REMOVED
X	EXISTING TO BE REMAIN
MO	MEDICAL OXYGEN
MA	MEDICAL AIR
MV	MEDICAL VACUUM
PIPE DOWN	
PIPE RISE UP	
PIPE CAP	
BRANCH CONNECTION	
ISOLATION VALVE	
LOCKABLE VALVE (INLINE/SERVICE)	
MEDICAL GAS PRESSURE SENSOR	
MEDICAL GAS CONNECTION WITH OUTLET/INLET	
MEDICAL GAS VACUUM SLIDE	
MEDICAL GAS ALARM PANEL	
MEDICAL GAS VALVE BOX	
ACCESS SIDE OF VALVE BOX OR ALARM PANEL	
MEDICAL VALVE BOX	
MEDICAL ALARM PANEL	

PROJECT COORDINATION NOTES:

- THIS PROJECT CONSISTS OF MULTIPLE TRADES OF WORK PERFORMED WITHIN AN EXISTING BUILDING, ALL OF WHICH ALLOWS VERY LITTLE PERMISSIBLE RANGE OF VARIATION. THE CONTRACTOR SHALL TAKE CAREFUL CONSIDERATION WITH THE COORDINATION AND INSTALLATION OF THE MULTITUDE OF NEW SYSTEMS WHILE ALSO ACCOMMODATING ANY EXISTING SYSTEMS TO REMAIN.
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- A COMPLETED SET OF COORDINATION PLANS ISSUED FOR REVIEW SHALL CONFIRM THAT THE CONTRACTOR FULLY UNDERSTANDS THE PROJECT CONSTRAINTS AND ALL KNOWN CONFLICTS HAVE BEEN ADDRESSED.

MEDICAL VALVE BOX SCHEDULE

VALVE BOX	OX	MV	MA	WALL WIDTH REQUIRED
MVB-1	1/2"	3/4"	1/2"	27.9"
MVB-2	1/2"	3/4"	1/2"	27.9"
MVB-3	1/2"	3/4"	1/2"	27.9"
MVB-4	1/2"	3/4"	1/2"	27.9"
MVB-5	1/2"	3/4"	1/2"	27.9"

NOTES:
(1) LABEL PER VA STANDARDS

MEDICAL GAS AREA ALARM PANEL SCHEDULE

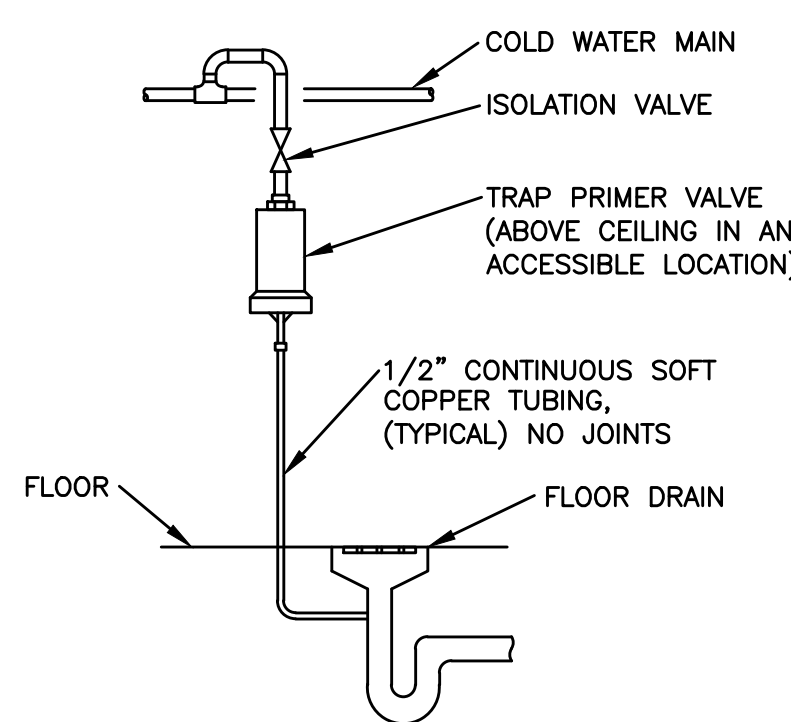
ALARM PANEL	VALVE BOX SERVED	WALL WIDTH REQUIRED	NOTES
MAP-1	MVB-1 THRU MVB-5	16"	-
-	-	-	-

NOTES:
(1) PROVIDE REMOTE SENSORS AND WIRING FROM SENSORS TO ALARM PANEL.
(2) LABEL PER VA STANDARDS.
(3) TIE ALARM PANEL ALARMS INTO BMS.

PLUMBING FIXTURE CONNECTION SCHEDULE

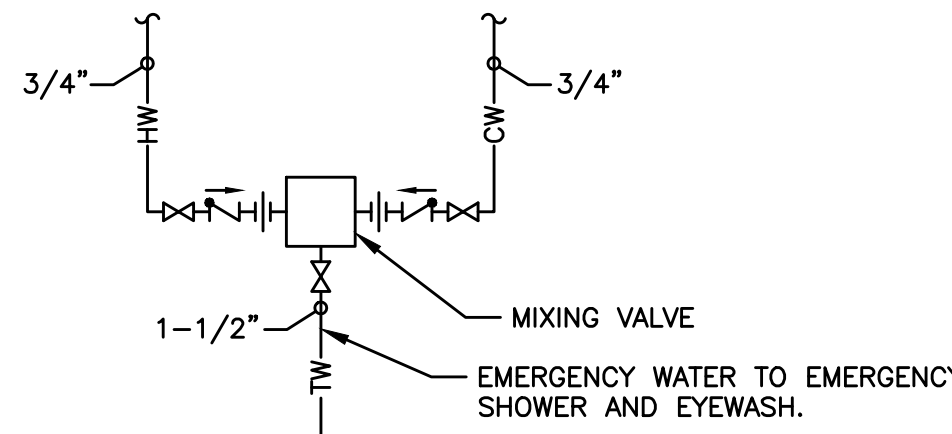
MARK	FIXTURE	BRANCH PIPE SIZE			
		CW	HW	WASTE	VENT
P-103	WATER CLOSET WALL HUNG	1-1/2"	-	4"	2"
P-414	LAVATORY WALL HUNG	3/4"	3/4"	1-1/2"	1-1/2"
P-418	LAVATORY WALL HUNG	3/4"	3/4"	1-1/2"	1-1/2"
P-505	CLINIC SINK WALL HUNG	1-1/2"	3/4"	4"	2
P-528	STAINLESS STEEL DROP IN SINK	3/4"	3/4"	1-1/2"	1-1/2"
P-530	STAINLESS STEEL UNDERMOUNT SINK	3/4"	3/4"	1-1/2"	1-1/2"
P-531	STAINLESS STEEL UNDERMOUNT SINK	3/4"	3/4"	1-1/2"	1-1/2"
P-532	INTEGRAL STAINLESS STEEL SINK	3/4"	3/4"	1-1/2"	1-1/2"
P-609	ELECTRIC WATER COOLER	3/4"	-	1-1/2"	1-1/2"
P-707	EMERGENCY SHOWER/EYE WASH	3/4"	3/4"	-	-
P-810	MIXING VALVE	3/4"	3/4"	-	-
FD-A	FLOOR DRAIN	-	-	4"	2"
FD-C	FLOOR DRAIN	-	-	4"	2"

NOTES:
1. PROVIDE INSULATION PROTECTION FOR ALL ADA LAVATORIES.
2. P-532 IS INTEGRAL TO COUNTERTOP. REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL INFORMATION. REFER TO SPECIFICATIONS FOR FAUCET AND PLUMBING REQUIREMENTS.



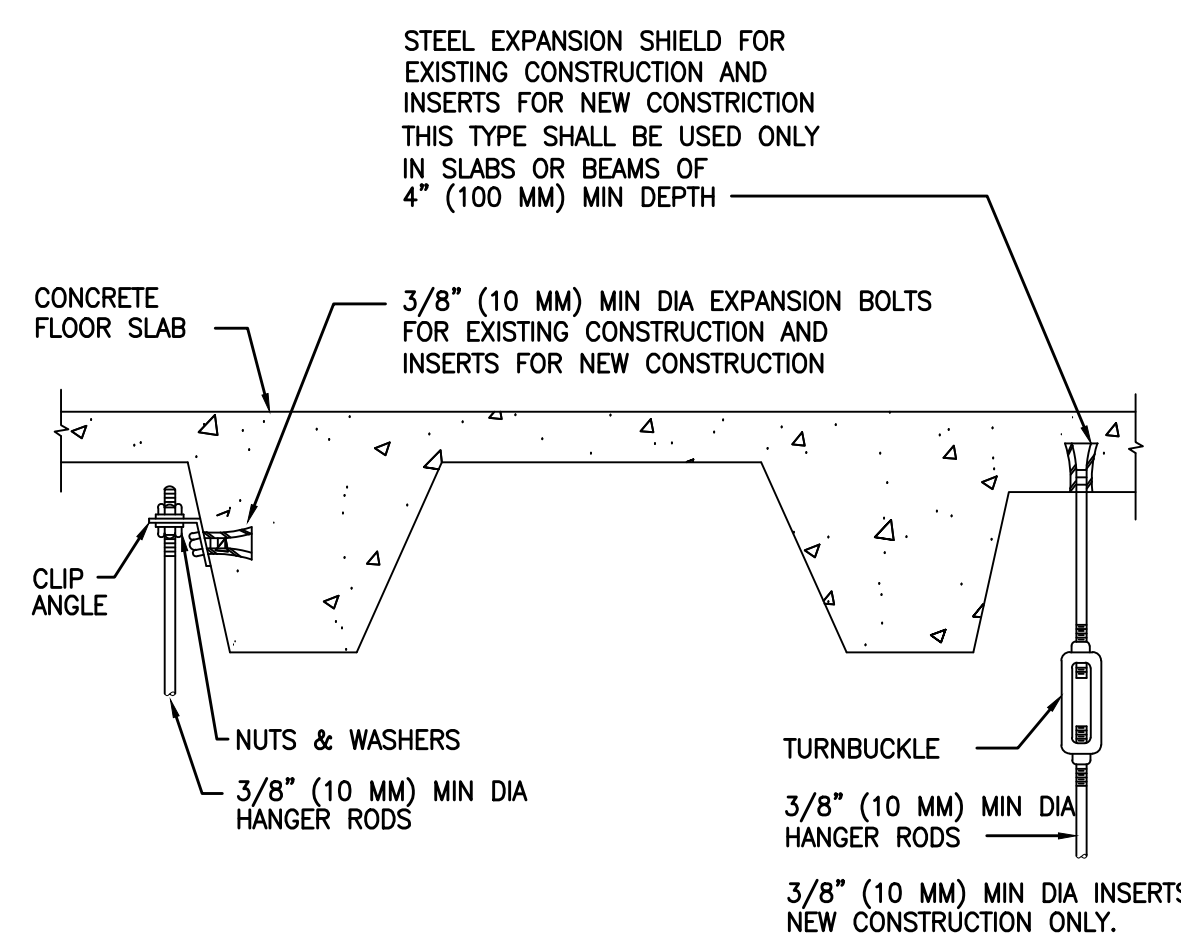
NOTE:
ALL FLOOR DRAINS TO BE PROVIDED WITH A TRAP PRIMER.

TRAP PRIMER DETAIL
NOT TO SCALE

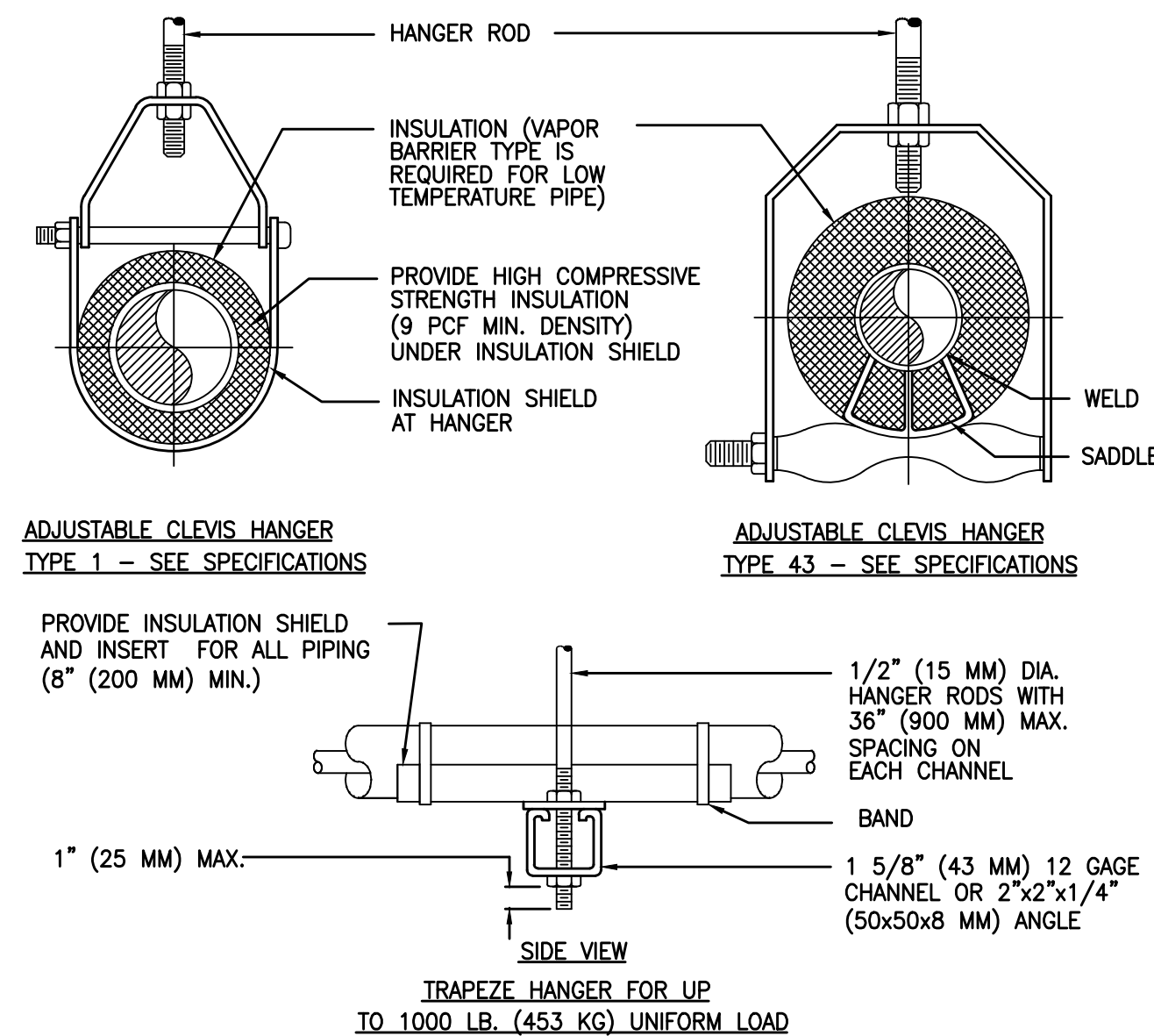


NOTE:
INSTALL IN AN ACCESSIBLE LOCATION.

MIXING VALVE DETAIL
NOT TO SCALE



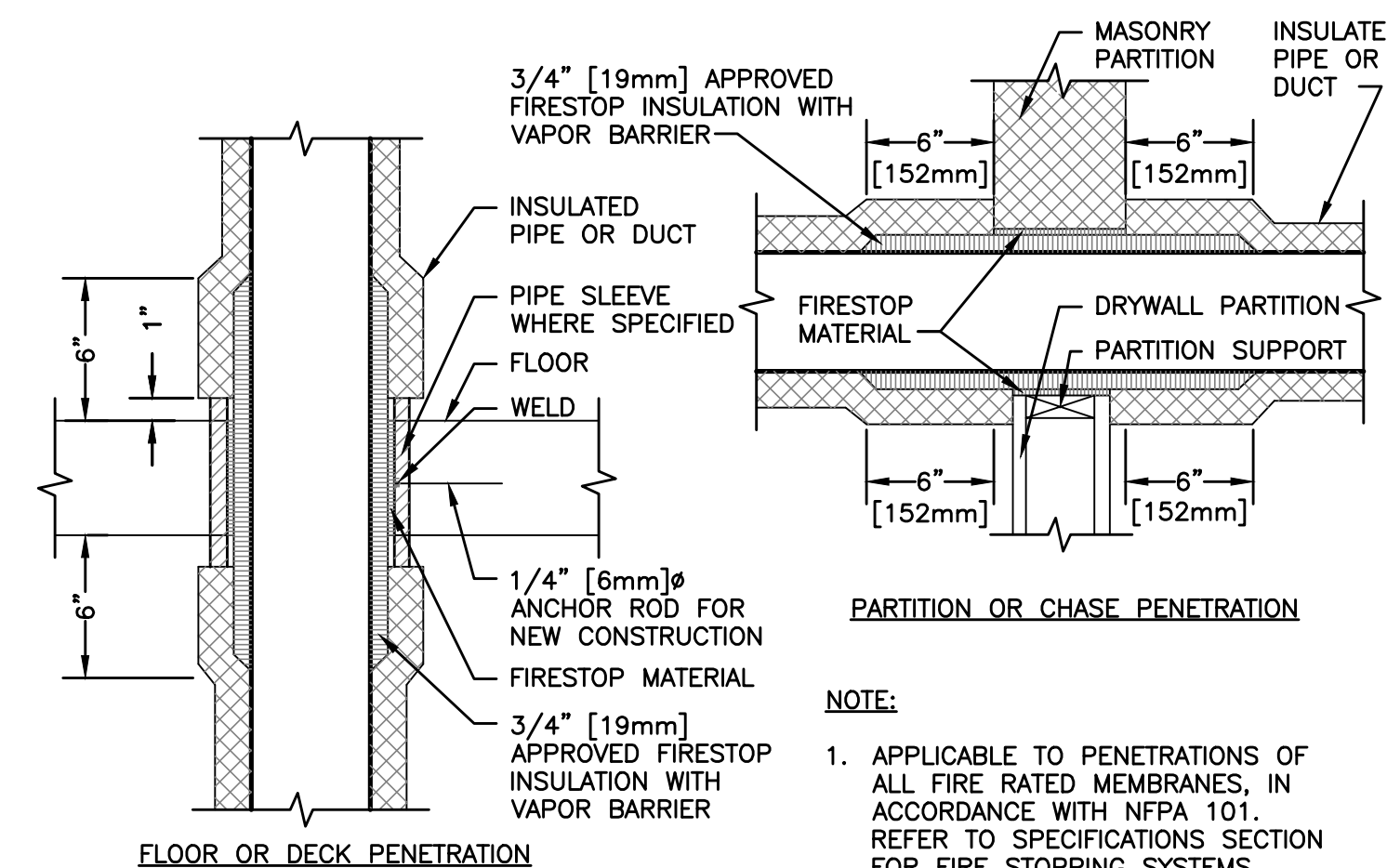
TYPICAL METHOD OF SECURING HANGER RODS IN CONCRETE SLABS AND BEAMS
NOT TO SCALE



TYPICAL PIPE HANGERS
NOT TO SCALE

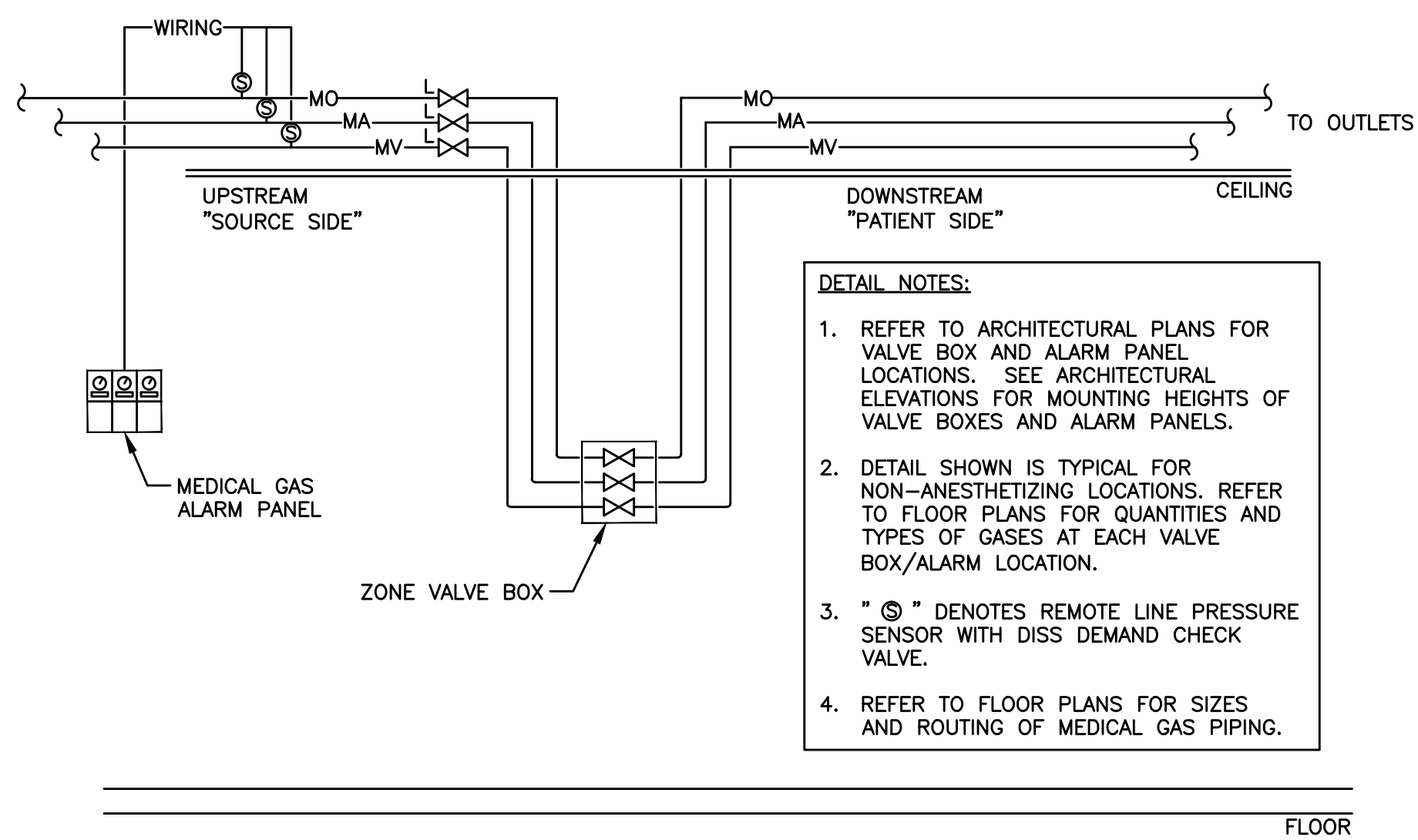
MAXIMUM PIPE/TUBING SUPPORT SPACING												
NOM. SIZE IN.	THRU	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8
PIPE	FT	(2.1)	(2.1)	(2.1)	(2.7)	(3.0)	(3.4)	(3.7)	(4.1)	(4.9)	(5.2)	(5.8)
TUBING	FT	5	7	7	9	10	11	12	14	16	17	19
	(M)	(1.8)	(2.1)	(2.4)	(2.7)	(3.0)	(3.7)	(4.0)	(4.1)	(4.9)	(5.2)	(5.8)

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.



NOTE:
1. APPLICABLE TO PENETRATIONS OF ALL FIRE RATED MEMBRANES, IN ACCORDANCE WITH NFPA 101. REFER TO SPECIFICATIONS SECTION FOR FIRE STOPPING SYSTEMS.

PIPE/DUCT PENETRATION OF FIRE/SMOKE BARRIERS
NOT TO SCALE



DETAIL NOTES:
1. REFER TO ARCHITECTURAL PLANS FOR VALVE BOX AND ALARM PANEL LOCATIONS. SEE ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS OF VALVE BOXES AND ALARM PANELS.
2. DETAIL SHOWN IS TYPICAL FOR NON-ANESTHETIZING LOCATIONS. REFER TO FLOOR PLANS FOR QUANTITIES AND TYPES OF GASES AT EACH VALVE BOX/ALARM LOCATION.
3. "S" DENOTES REMOTE LINE PRESSURE SENSOR WITH DISS DEMAND CHECK VALVE.
4. REFER TO FLOOR PLANS FOR SIZES AND ROUTING OF MEDICAL GAS PIPING.

TYPICAL MEDICAL GAS VALVE BOX DETAIL
NOT TO SCALE

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PLUMBING LEGEND, SCHEDULES, DETAILS, AND NOTES

Approved: Project Director

EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY

Location
VAMC - WADE PARK

Date
1-17-2014

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DAD

Project Number
541-14-101

Building Number
1

Drawing Number
1-P0

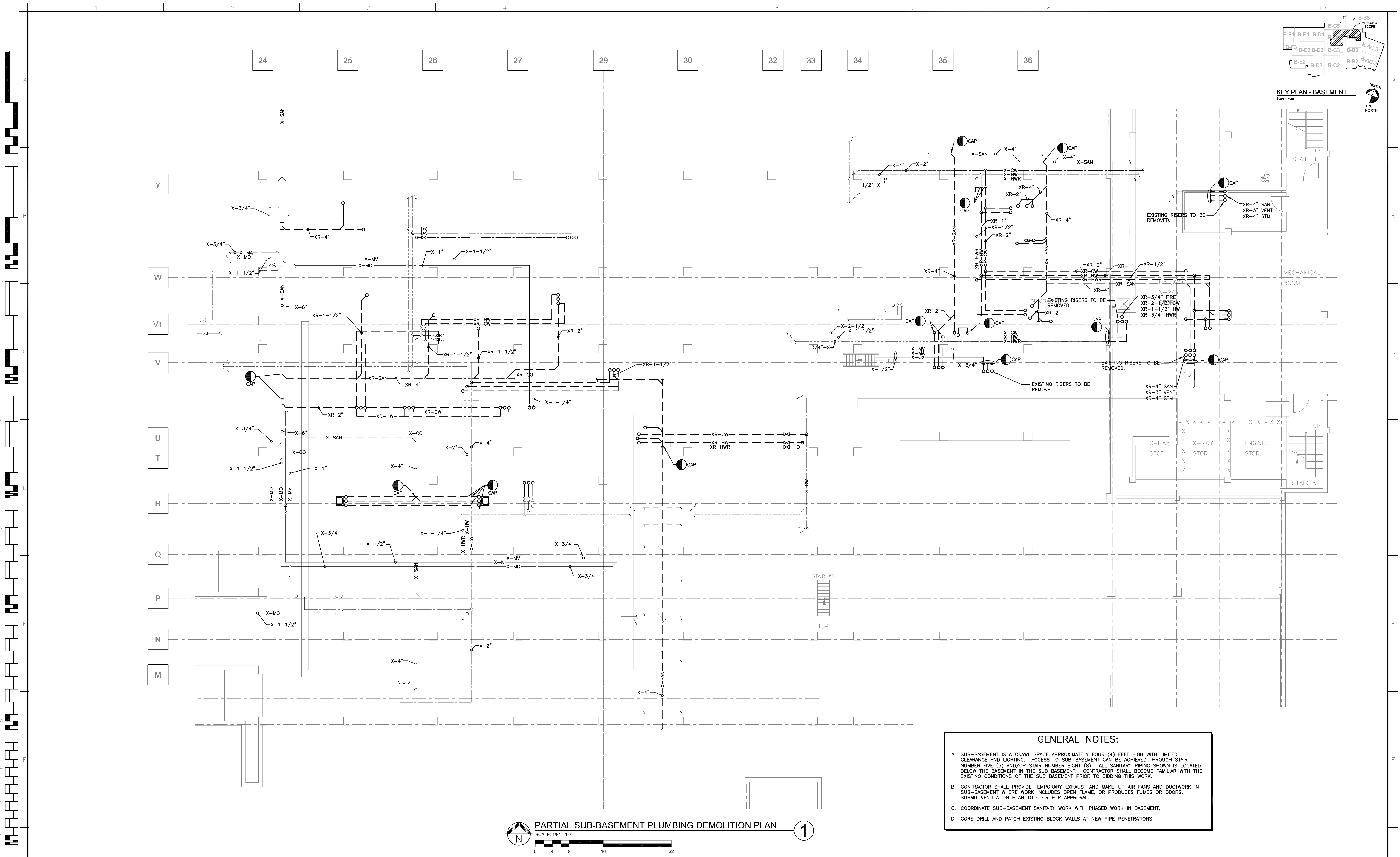
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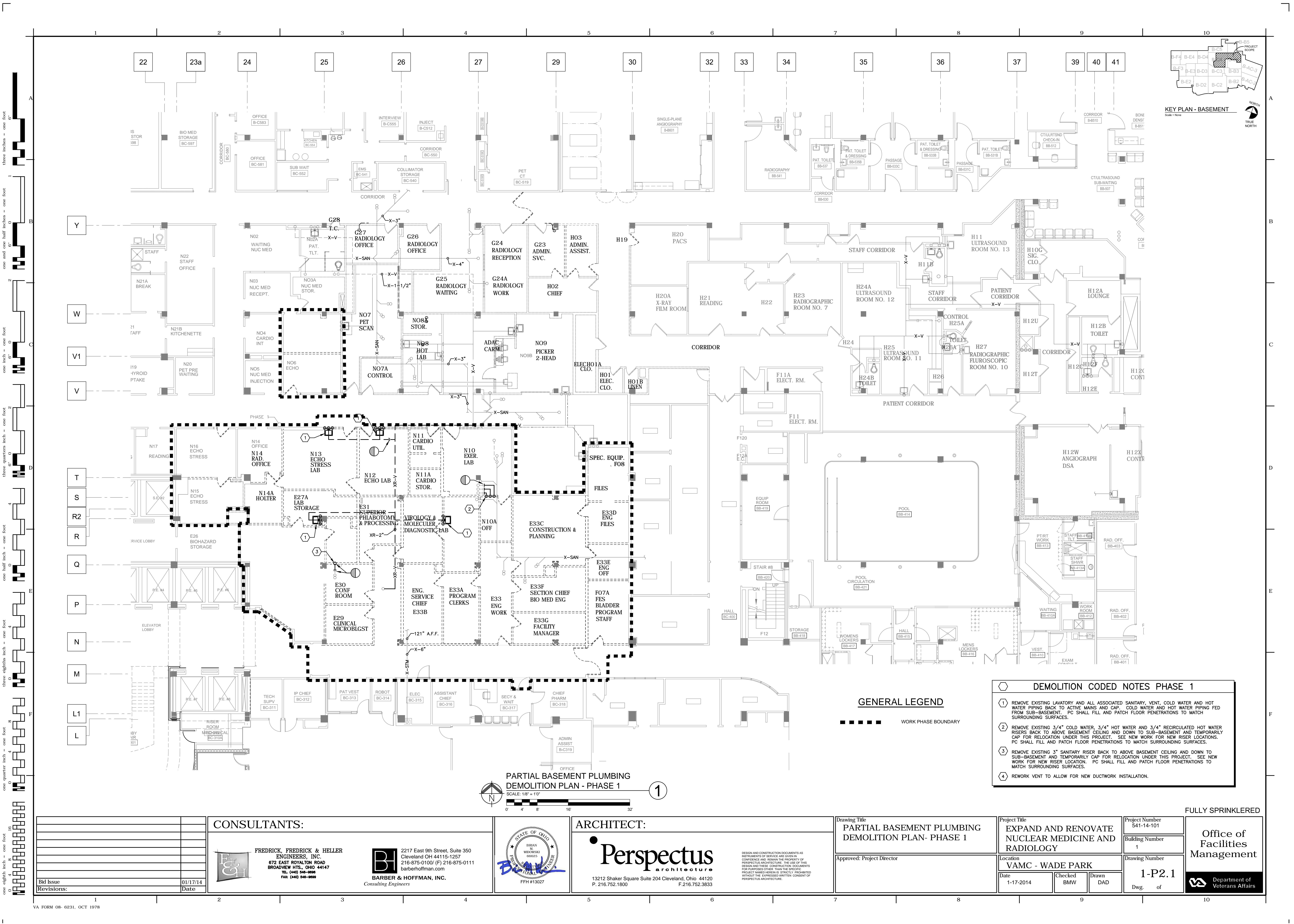
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Management

Department of
Veterans Affairs

three inches = one foot
one and one half inch = one foot
one inch = one foot
one half inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot



CONSULTANTS:		ARCHITECT:		Office of Facilities Management	
 FREDRICK, FREDRICK & HELLER ENGINEERS, INC. 672 EAST ROYALTON ROAD BROADVIEW HTS., OHIO 44147 TEL. (440) 546-9090 FAX (440) 546-9099		 Perspectus architecture 13212 Shaker Square Suite 204 Cleveland, Ohio 44120 P. 216.752.1800 F. 216.752.3833		Department of Veterans Affairs	
 BARBER & HOFFMAN, INC. Consulting Engineers 2217 East 9th Street, Suite 350 Cleveland OH 44115-1257 216-875-0100/ (F) 216-875-0111 barberhoffman.com		 BRIAN WIDOMSKI REGISTERED PROFESSIONAL ENGINEER FFH #13027		FULLY SPRINKLERED	
Bid Issue 01/17/14 Revisions: Date		Drawing Title PARTIAL SUB-BASEMENT PLUMBING DEMOLITION PLAN		Project Title EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY	
		Approved: Project Director		Location VAMC - WADE PARK	
				Date 1-17-2014 Checked BMW Drawn DAD	
				Project Number 541-14-101 Building Number 1 Drawing Number 1-P1 Dwg. of	



KEY PLAN - BASEMENT

Scale = None



GENERAL LEGEND

WORK PHASE BOUNDARY

DEMOLITION CODED NOTES PHASE 1

- 1 REMOVE EXISTING LAVATORY AND ALL ASSOCIATED SANITARY, VENT, COLD WATER AND HOT WATER PIPING BACK TO ACTIVE MAINS AND CAP. COLD WATER AND HOT WATER PIPING FED FROM SUB-BASEMENT. PC SHALL FILL AND PATCH FLOOR PENETRATIONS TO MATCH SURROUNDING SURFACES.
- 2 REMOVE EXISTING 3/4" COLD WATER, 3/4" HOT WATER AND 3/4" RECIRCULATED HOT WATER RISERS BACK TO ABOVE BASEMENT CEILING AND DOWN TO SUB-BASEMENT AND TEMPORARILY CAP FOR RELOCATION UNDER THIS PROJECT. SEE NEW WORK FOR NEW RISER LOCATIONS. PC SHALL FILL AND PATCH FLOOR PENETRATIONS TO MATCH SURROUNDING SURFACES.
- 3 REMOVE EXISTING 3" SANITARY RISER BACK TO ABOVE BASEMENT CEILING AND DOWN TO SUB-BASEMENT AND TEMPORARILY CAP FOR RELOCATION UNDER THIS PROJECT. SEE NEW WORK FOR NEW RISER LOCATION. PC SHALL FILL AND PATCH FLOOR PENETRATIONS TO MATCH SURROUNDING SURFACES.
- 4 REWORK VENT TO ALLOW FOR NEW DUCTWORK INSTALLATION.

PARTIAL BASEMENT PLUMBING
DEMOLITION PLAN - PHASE 1

SCALE: 1/8" = 10'

1

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Drawing Title

PARTIAL BASEMENT PLUMBING
DEMOLITION PLAN- PHASE 1

Approved: Project Director

Project Title

EXPAND AND RENOVATE
NUCLEAR MEDICINE AND
RADIOLOGY

Location

VAMC - WADE PARK

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541-14-101

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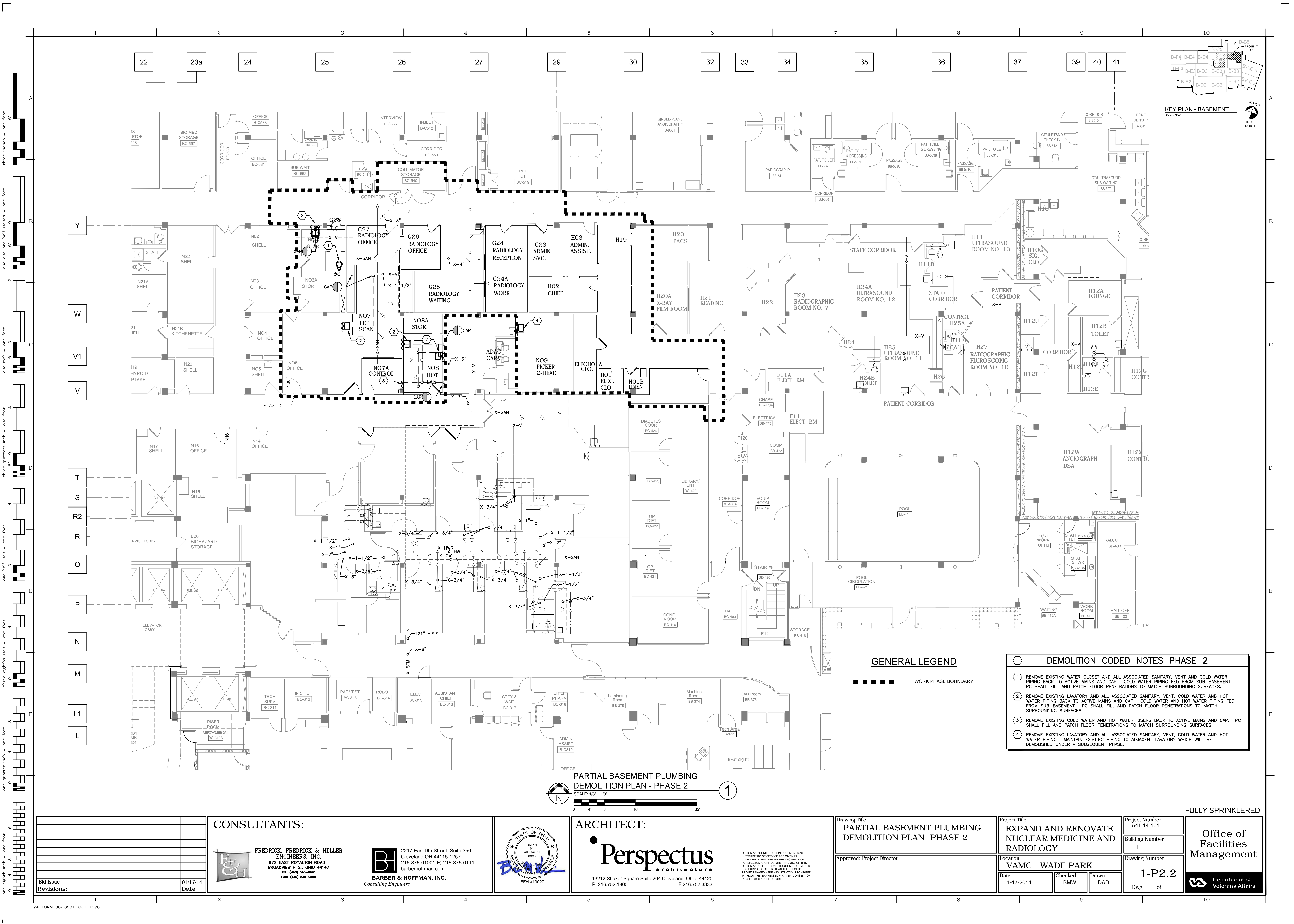
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Bid Issue		01/17/14
Revisions:		Date

CONSULTANTS:



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Drawing Title	PARTIAL BASEMENT PLUMBING DEMOLITION PLAN- PHASE 2
Approved: Project Director	

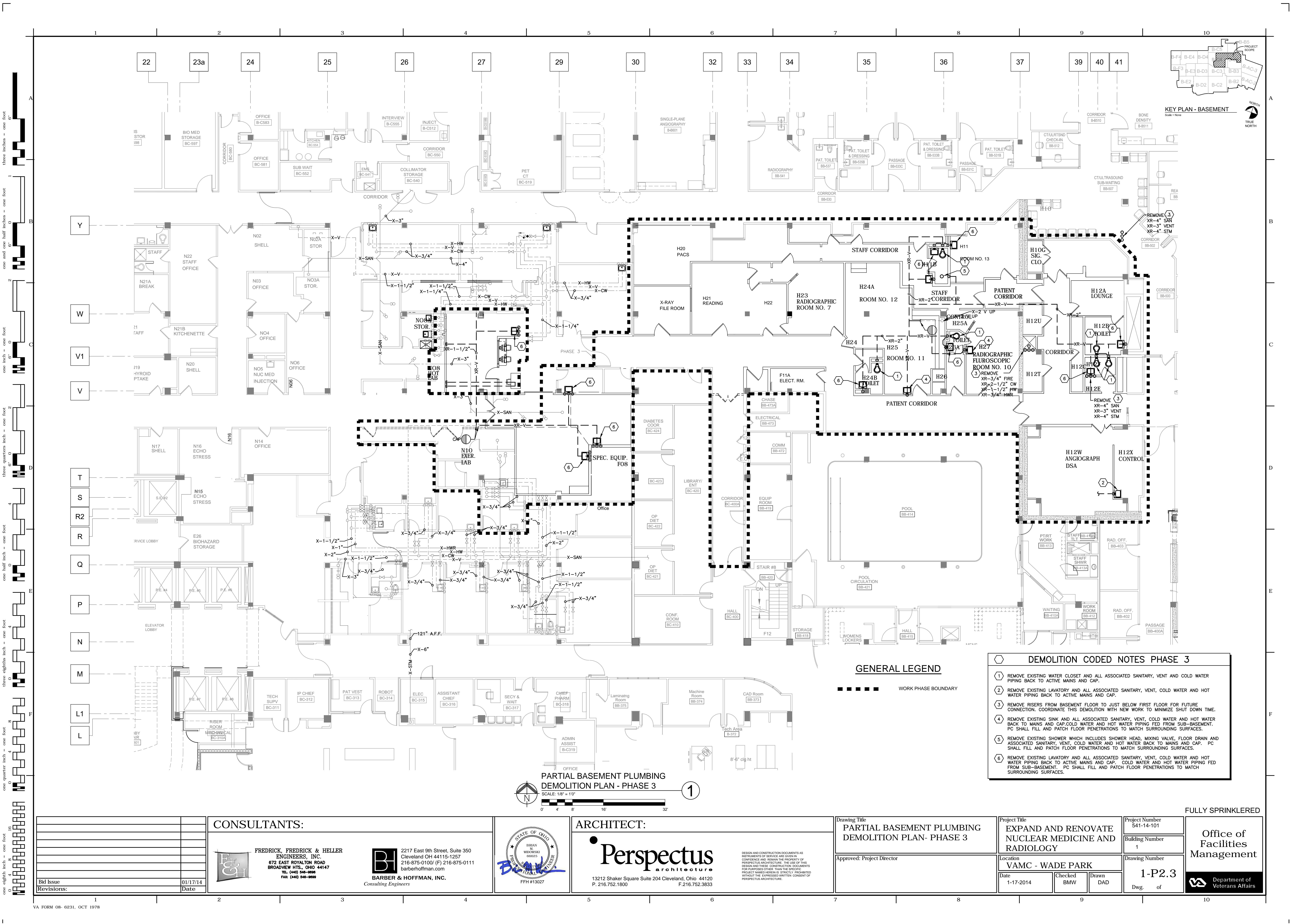
Project Title	EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY
Location	VAMC - WADE PARK
Date	1-17-2014
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Project Number	541-14-101
Building Number	1
Drawing Number	1-P2.2
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PARTIAL BASEMENT PLUMBING
DEMOLITION PLAN - PHASE 3

SCALE: 1/8" = 1'-0"

GENERAL LEGEND

WORK PHASE BOUNDARY

DEMOLITION CODED NOTES PHASE 3

- 1 REMOVE EXISTING WATER CLOSET AND ALL ASSOCIATED SANITARY, VENT AND COLD WATER PIPING BACK TO ACTIVE MAINS AND CAP.
- 2 REMOVE EXISTING LAVATORY AND ALL ASSOCIATED SANITARY, VENT, COLD WATER AND HOT WATER PIPING BACK TO ACTIVE MAINS AND CAP.
- 3 REMOVE RISERS FROM BASEMENT FLOOR TO JUST BELOW FIRST FLOOR FOR FUTURE CONNECTION. COORDINATE THIS DEMOLITION WITH NEW WORK TO MINIMIZE SHUT DOWN TIME.
- 4 REMOVE EXISTING SINK AND ALL ASSOCIATED SANITARY, VENT, COLD WATER AND HOT WATER PIPING BACK TO MAINS AND CAP. COLD WATER AND HOT WATER PIPING FED FROM SUB-BASEMENT. PC SHALL FILL AND PATCH FLOOR PENETRATIONS TO MATCH SURROUNDING SURFACES.
- 5 REMOVE EXISTING SHOWER WHICH INCLUDES SHOWER HEAD, MIXING VALVE, FLOOR DRAIN AND ASSOCIATED SANITARY, VENT, COLD WATER AND HOT WATER PIPING BACK TO MAINS AND CAP. PC SHALL FILL AND PATCH FLOOR PENETRATIONS TO MATCH SURROUNDING SURFACES.
- 6 REMOVE EXISTING LAVATORY AND ALL ASSOCIATED SANITARY, VENT, COLD WATER AND HOT WATER PIPING BACK TO ACTIVE MAINS AND CAP. COLD WATER AND HOT WATER PIPING FED FROM SUB-BASEMENT. PC SHALL FILL AND PATCH FLOOR PENETRATIONS TO MATCH SURROUNDING SURFACES.

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Drawing Title
PARTIAL BASEMENT PLUMBING
DEMOLITION PLAN- PHASE 3

Approved: Project Director

Project Title
EXPAND AND RENOVATE
NUCLEAR MEDICINE AND
RADIOLOGY

Location
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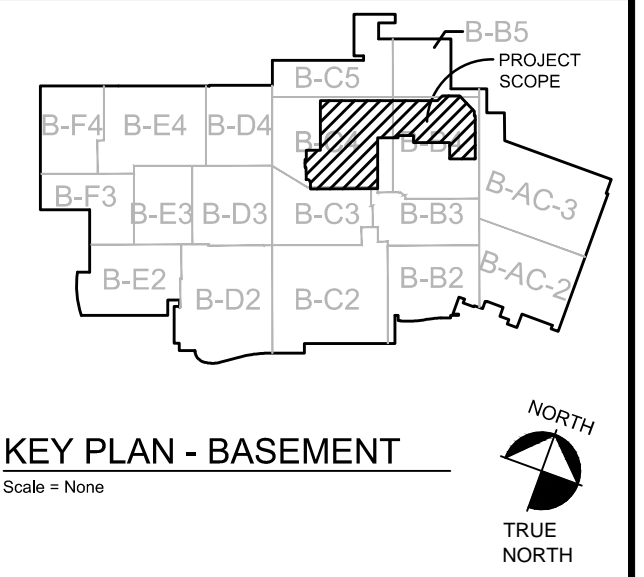
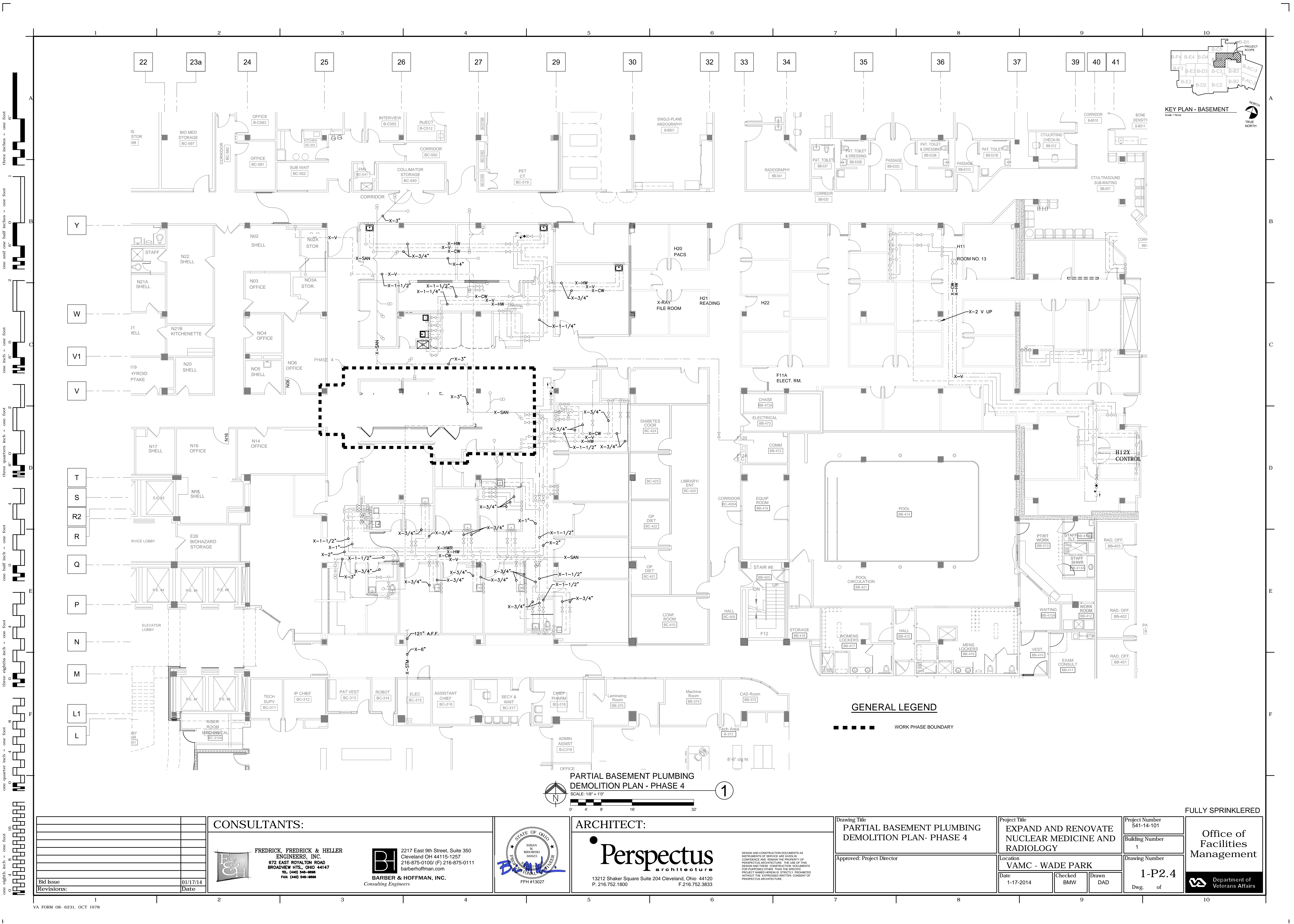
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GENERAL LEGEND

■■■■■ WORK PHASE BOUNDARY

PARTIAL BASEMENT PLUMBING
DEMOLITION PLAN - PHASE 4
SCALE: 1/8" = 1'-0"

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Drawing Title
PARTIAL BASEMENT PLUMBING
DEMOLITION PLAN- PHASE 4

Approved: Project Director

Project Title
EXPAND AND RENOVATE
NUCLEAR MEDICINE AND
RADIOLOGY

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